

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: November 20, 1991

Date Submitted: November 7, 1991

Project: 7238 Metro Self-Monitor, PO #M22154

**RESULTS OF ANALYSES OF THE WATER SAMPLE  
FOR SELECTED METALS BY ICP (6010)  
Results Reported as mg/L (ppm)**

<u>Sample #</u>	<u>Cromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M22154A	0.85	1.1	0.55	0.40

Quality Assurance

Method Blank	<0.02	<0.02	<0.02	<0.02
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M22154A (Duplicate)	0.83	1.1	0.56	0.41
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M22154A (Matrix Spike) Percent Recovery	90%	88%	92%	92%
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M22154A (Matrix Spike Duplicate) Percent Recovery	92%	92%	95%	95%
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Spike Blank Percent Recovery	91%	91%	93%	90%
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Spike Level	5	5	10	5
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## ENVIRONMENTAL CHEMISTS

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**RESULTS OF ANALYSES OF THE ACID SAMPLES  
FOR % ACID AS  $\text{HN0}_3$   
Results Reported as ug/g (ppm)**

<u>Sample #</u>	<u>% Acid as <math>\text{HN0}_3</math></u> (ppm)
M22154B	8.5
M22154C	11
 <u>Quality Assurance</u>	
M22154C (Duplicate)	11

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**RESULTS OF ANALYSES OF THE ACID SAMPLES  
FOR SPECIFIC GRAVITY  
Results Reported as ug/g (ppm)**

<u>Sample #</u>	<u>Specific Gravity</u> (ppm)
M22154B	1.3
M22154C	1.2

Quality Assurance

M22154C (Duplicate)	1.2
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11-MZP-A

Report To: ALASKAN COPPER WORKS Contact: GREG SPEER  
 Any P.O. BOX 3540  
 Address SEATTLE, WA. 98124  
 City, State, Zip (206) 623-6800  
 Phone # 11 / 191  
 Date

PURCHASE ORDER #

m22154

### PROJECT LOCATION

3200 G<sup>th</sup> AVE. SOUTH

**SAMPLE DISPOSAL INFORM.**

- ☐ Dispose after 30 days  
☒ Return Samples  
☐ Call for Instructions

Analyses  
Requested

Cr, Cu, Ni, Zn

% ACID, SPEC. C. 10/17

% ACID, SPEC. GRAVITY

Time

Received by:	
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3008-B 16th Avenue West  
Seattle, WA 98119  
FAX: (206) 283-5044

November 20, 1991

Greg Speer, Project Leader  
Alaskan Copper  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Speer:

Enclosed are the results of the analyses of the samples submitted on November 7, 1991 from Project 7238 Metro Self-Monitor, PO #M22154.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,



Mark Z Perin, Chemist

MZP/dp

Enclosures